## ISSUE SLIP STAPLE (for additional cross references)

| POSITION                  | INITIALS    | ID NO. | DATE    |
|---------------------------|-------------|--------|---------|
| FEE DETERMINATION         | 46          |        | 2-37-01 |
| O.I.P.E. CLASSIFIER       |             | 43     | C/E/01  |
| FORMALITY REVIEW          | Fl          | 08     | 183101  |
| RESPONSE FORMALITY REVIEW | <del></del> |        |         |
|                           |             |        |         |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 |   | Objected     |

|          |          |            |  |          |          | ÷         |  |              | •••••    |  |          |   |          | 1651     |             |              |              |          |           | U        |                    |          |          |          |            |          |            | jeci     |              |                |          |              |  |  |          |              |          |
|----------|----------|------------|--|----------|----------|-----------|--|--------------|----------|--|----------|---|----------|----------|-------------|--------------|--------------|----------|-----------|----------|--------------------|----------|----------|----------|------------|----------|------------|----------|--------------|----------------|----------|--------------|--|--|----------|--------------|----------|
| Cla      | im       | Γ          |  |          |          | Dat       | е                                      |              |          |  |          |   | Cla      | ıim      |             | _            | _            |          | Date      | 9        |                    |          |          |          |            | Cla      | im         |          |              | _              | ļ        | Date         | ,                                      | <del></del>                                      |          |              | ╗        |
| Final    | Original | < 11/105   | 415104   |          |          |           |  |              |          |  |          |   | Final    | Original |             |              |              |          |           |          |                    |          |          |          |            | Final    | Original   |          |              |                |          |              |  |  |          |              |          |
|          | N        | ÐV.        | V  |          |          |           |  |              |          |  | _        |   | _        | 51       | _           | _            | _            | _        | -         | 4        | 4                  | 4        | 4        | $\dashv$ | - }        |          | 101        | +        | $\dashv$     |                | -        | $\dashv$     | $\dashv$                               | +  | +        | +            | ᅴ        |
| _        | 12       | <u>),v</u> |  | _        |          | _         |  |              | Щ        | Н  | _        |   |          | 52<br>53 | -           | $\dashv$     | -            | $\dashv$ |           |          | $\dashv$           | $\dashv$ | $\dashv$ | $\dashv$ | ŀ          |          | 102<br>103 | $\dashv$ | $\dashv$     | +              | -+       | $\dashv$     | $\dashv$                               | $\dashv$   | ┰        | +            | ᅱ        |
| L        | Ş        |            | V  | ļ        | $\vdash$ |           | Н                                      | -            | _        | Н  | $\dashv$ |   | <u> </u> | 54       |             |              | $\dashv$     | $\dashv$ | $\dashv$  |          | $\dashv$           | $\dashv$ | ┥        | $\dashv$ | ŀ          | _        | 104        | +        | +            | $\dashv$       | +        | -            | +                                      | $\dashv$   | +        | $\dashv$     | ┥        |
| -        | 5        |            | V  | ⊢        | -        | H         | Н                                      |              | H        | Н  |          |   | ┝        | 55       | $\dashv$    | 一            | -            | -1       | ᅱ         | 1        | -                  | _        | $\dashv$ | $\dashv$ | 1          |          | 105        | _        | 7            | 7              | $\dashv$ | 寸            | 7                                      | ヿ  | 寸        | 十            | ヿ        |
| -        | 6        |            | V  | ┢        | -        | $\vdash$  | Н                                      | Н            | -        | Н  |          |   | H        | 56       | -           | $\dashv$     |              | 一        | _         | _        |                    | +        | 7        | T        | t          |          | 106        | $\neg$   | ┪            | 7              | 7        | T            | ヿ                                      | ヿ  | 7        | $\neg$       | $\neg$   |
| H        | 7        |            | i  | -        | -        | -         |  |              | _        | Н  |          |   |          | 57       |             | T            |              | 寸        |           | $\neg$   | 7                  | 7        |          |          |            |          | 107        |          |              |                |          |              |  | $\Box$   |          | $\Box$       |          |
| ┝        | 8        | V          | V  |          | $\vdash$ |           |  | П            |          |  |          |   |          | 58       |             |              |              |          |           |          |                    |          |          |          | [          | _        | 108        |          |              |                |          |              | $\Box$                                 |  |          | _            |          |
| 一        | 9        |            | J  |          |          |           |  | -            |          |  |          |   |          | 59       |             |              |              |          |           |          |                    |          |          |          |            |          | 109        | 4        | _            | _              | _        | _            | 4                                      | _  | 4        | 4            | _        |
|          | (E)      | JV         | V  |          |          |           | •                                      |              |          |  |          |   | L        | 60       |             |              |              | _        | _         | $\Box$   |                    | _        | 4        | _        | - 1        | _        | 110        | 4        | _            | 4              | _        |              | $\dashv$                               | 4  | 4        | 4            | _        |
| Ŀ        | U        |            | 7  |          | П        |           |  |              |          | Ш  | Ш        |   | _        | 61       | $\sqcup$    | _            | Ц            | _        |           | _        | _                  | $\dashv$ |          | _        |            |          | 111        | 4        | 4            | 4              | 4        | $\dashv$     | -                                      |  | $\dashv$ | $\dashv$     | _        |
|          | 10       |            | ٧  | <u> </u> | Ш        | $\vdash$  | Ш                                      |              |          | Ш  | Ш        |   | $\vdash$ | 62       | $\dashv$    | _            |              | _        |           | _        |                    | $\dashv$ | -        |          |            | _        | 112        | -+       |              | 4              | $\dashv$ |              | $\dashv$                               | $\dashv$   | +        | $\dashv$     | _        |
| F        | 13       |            | 1  | _        | _        | _         | Ĺ                                      | L.,          | $\vdash$ | Н  | $\sqcup$ |   | -        | 63       |             | _            |              |          | $\dashv$  | -        |                    | +        | 4        |          |            | _        | 113<br>114 | $\dashv$ | -            | $\dashv$       | $\dashv$ | ᅱ            | $\dashv$                               | -  | $\dashv$ | $\dashv$     | _        |
| Ц        | 4        |            | ٧  | <u> </u> | -        | -         | Н                                      | $\vdash$     | $\vdash$ | $\vdash$                                     | Н        |   | $\vdash$ | 64<br>65 | Н           | $\dashv$     |              | $\dashv$ | -         | -        | -                  | $\dashv$ | $\dashv$ |          |            |          | 115        | +        | -            | -              | -        | ᅱ            | $\dashv$                               | $\dashv$   | +        | $\dashv$     | _        |
|          | 15       | }/         | 1  | $\vdash$ | -        | -         | Н                                      | -            | <u> </u> | $\vdash$                                     | Н        |   | $\vdash$ | 66       | Н           | -            | $\vdash$     | $\dashv$ | Н         | $\dashv$ |                    | $\dashv$ |          | $\dashv$ |            |          | 116        | -        | -            | $\dashv$       | -        | $\dashv$     | 十                                      | -1   | - 1      | $\exists$    |          |
| 14       | 17       |            | +  | -        | H        | $\vdash$  | $\vdash$                               |              | $\vdash$ | ├  | Н        |   | -        | 67       | Н           |              |              | -        | H         | $\dashv$ | -                  | $\dashv$ | ᅥ        | $\dashv$ |            |          | 117        | 1        | ᅥ            | ┪              | _        | _            | _                                      | 一  | ᅥ        | $\dashv$     |          |
| E .      | 18       |            | ┢  | H        | -        | ┢╌        | -                                      | $\vdash$     | ⊢        | ┝  | Н        |   | H        | 68       | H           |              |              |          |           |          | $\dashv$           | _†       |          |          |            | Т        | 118        |          | ┪            | 7              | ╛        | T            | $\neg$                                 | ᆿ  | 寸        | $\neg$       | _        |
| 1        | 19       |            | ⊢  | ├        | ╁        |           | H                                      | -            | $\vdash$ | $\vdash$                                     | ┝        |   | H        | 69       | -           |              | _            |          |           |          | $\dashv$           | 寸        | _        |          |            |          | 119        |          |              |                |          | $\Box$       |  |  | T        |              | _        |
| Η,       | 20       |            | ╁╌   | -        | ╫╌       |           | -                                      | H            | -        | -  | $\vdash$ |   |          | 70       |             | <del></del>  |              | H        |           |          | _                  | $\neg$   |          |          |            |          | 120        |          |              | $\neg$         |          |              | $\neg$                                 | $\neg$   | $\neg$   | П            |          |
|          | 21       | _          | <del>                                     </del> | ┨        | ╁        | ·         | $\vdash$                               | ┢            | -        | -  | $\vdash$ |   | $\vdash$ | 71       | $\vdash$    |              |              |          | -         |          |                    | -        |          | М        |            | ┢        | 121        | $\Box$   | $\dashv$     |                |          |              | $\exists$                              |  |          | П            | _        |
| $\vdash$ | 22       |            | -  | ╁╴       | +        | $\vdash$  | $\vdash$                               | -            | -        | ┢  | -        |   | $\vdash$ | 72       | -           | $\vdash$     | <del> </del> | H        |           | _        |                    |          | _        |          |            | $\vdash$ | 122        |          | $\exists$    | _              |          |              | $\neg$                                 | $\Box$   | $\neg$   | П            | _        |
| $\vdash$ | 23       |            | ┢  | ╁        | +        | ┢         |  | $\vdash$     | -        | ┢  | Н        |   | -        | 73       | Г           | -            | $\vdash$     |          |           |          |                    |          |          | Г        | 1          | Г        | 123        | П        |              |                |          |              |  |  |          |              |          |
| 1        | 24       |            | l.,  | 1        |          |           | -,-                                    | -            |          | i.   |          |   | -        | 74       |             | -            |              |          |           |          |                    |          |          |          | <u>-</u> - | - 5      | 124        |          |              | 11             |          | ·::          |  | L  |          |              | :        |
| 1        |          |            | _  | Ť        | 1        | ī         | - 40                                   |              | ₩.       |  | = =      |   |          | 75       | -           | -            | - "          |          |           |          |                    |          |          | .:.      |            | =        | 125        |          | 1.53         | +              | -        | -            | *                                      |  | 7-       |              | =        |
|          |          |            | 1  |          | 1        | Т         | -                                      |              |          | <u>.                                    </u> | ۳.       |   | Г        | 76       |             |              |              |          |           |          |                    |          |          |          | ]          |          | 126        | ==;      | _            | ì              |          |              |  |  |          |              | -        |
| [        | 27       | 18         |  |          |          |           |  |              |          |  |          | ] |          | 77       |             |              |              |          |           |          | <u> </u>           |          | L        |          |            | L        | 127        | _        | _            | _              |          |              | Щ                                      | تنا  |          |              | <u> </u> |
|          | 28       |            |  |          |          | Ι         |  |              |          |  |          | ] |          | 78       |             |              | _            | ╙        | L         |          | <u> </u>           | L.       | _        | _        | ļ          | L        | 128        |          | _            | _              | ļ        |              | ш                                      | ш  | ш        | L            | <u> </u> |
|          | 29       | _          |  |          |          | L         |  |              | L        |  |          |   | $\perp$  | 79       |             | L            | _            | <u> </u> | Ļ         | _        | Ļ                  | _        | _        | <u> </u> | 1          | _        | 129        |          | 7.2          | ļ.             |          | <u> </u>     | <b></b> -                              | ⊢  | ļ        | <u> </u>     | $\vdash$ |
| Ŀ        | 30       | _          |  |          |          | _         |  | L.           | L        | L  |          | - | L        | 80       |             | L            | _            | _        | ١         | <u> </u> | _                  |          | _        |          | ļ          | L        | 130        |          | - 4          | _              | _        | -            | -                                      | ⊢  |          | ├-           | ⊢        |
| 1        | 3        | -          | ┸  | _        | $\perp$  | 1         | ــــــــــــــــــــــــــــــــــــــ | <u> </u>     | -        | L  | L        | 1 | $\vdash$ | 81       | +           | Ļ            | <u> </u>     | ┞        |           | ├        |                    |          | -        | $\vdash$ | -          | H        | 131        |          |              | -              | 1        | ⊢            | H                                      | ├  | H        | ├            | ⊢        |
| Ļ        | 3        | _          | $\perp$  | 1        | $\perp$  | ╄         | -                                      | ┡            | -        | ╀  | ╄-       | - | -        | 82       | -           | -            | $\vdash$     | ⊨        | +         | ⊣        | $\vdash$           | -        | 1        | $\vdash$ | 1          | $\vdash$ | 132        |          | _            | ┢              | ├        | ┝            | $\vdash$                               | -  | $\vdash$ | <del> </del> | $\vdash$ |
|          | 3        |            | +  | ╀        | +        | $\vdash$  | ╀                                      | +            | +-       | ╁  | $\vdash$ | - | $\vdash$ | 83<br>84 | -           | $\vdash$     | +            | ┼-       | ⊢         | -        | -                  | $\vdash$ | -        | 1-       | 1          | -        | 134        |          | <del> </del> | $\vdash$       | -        | $\vdash$     | ╁                                      | $\vdash$   | -        | +            | $\vdash$ |
| $\vdash$ | 34       | -          | +  | +        | ╁        | +         | +                                      | -            | ╁        | +  | +        | 1 | $\vdash$ | 85       | -           | +            | +-           | +        | +         | ┼        | $\vdash$           | $\vdash$ | -        | +-       | ┨          | -        | 135        |          | $\vdash$     | H              | +-       | H            |  | $\vdash$   | $\vdash$ | +            | $\vdash$ |
| $\vdash$ | 3        | _          | +  | ╁-       | +        | +         | +                                      | +-           | +        | +  | $\vdash$ | 1 | +        | 86       |             | +            | +            | -        | +         | +-       |                    | $\vdash$ | +-       | +        | 1          | $\vdash$ | 136        |          |              | -              | $\vdash$ | t            | T                                      | <del>                                     </del> | $\vdash$ | T            | T        |
| $\vdash$ | 3        | ┛          | ╁  | +        | +        | +-        | +-                                     | +            | +        | 十  | +        | 1 | -        | 87       | _           | +            | T            | +        | $\dagger$ | t        | t                  | t        | T        | T        | 1          |          | 137        |          |              | <u> </u>       | T        | 1            | $\Box$                                 |  | Г        | $\sqcap$     | Γ        |
| $\vdash$ | 3        |            | t  | +        | +        | +         | +                                      | +            | ╁        | +  |          | 1 | $\vdash$ | 88       | <del></del> | †            | t            | t        | 1         | Τ        | T                  | t -      | Τ        | -        | 1          | Г        | 138        | _        |              | Γ              | Γ        | Π            |  |  |          | I            | Γ        |
| H        | 3        |            | +  | +        | +        | T         | T                                      | †-           | T        | t  | T        | 1 |          | 89       | -           | t            | T            | T        | Τ         | T        | T                  | Γ        | T        | $\vdash$ | 1          |          | 139        |          |              |                |          |              |  |  |          | $\Box$       |          |
| H        | 4        | -          | +  | +        | T        | +         | T                                      | Ť            | †        | +  | T        | 1 |          | 90       | -           | T            | T            | T        | T         | Τ        | Γ                  |          | Τ        | Τ        | 1          |          | 140        | )        |              |                |          |              | L                                      | $oxed{oxed}$                                     | Ĺ        | L            | Ĺ        |
| $\vdash$ | 4        |            | $^{\dagger}$                                     | t        | +        | $\dagger$ | T                                      | T            | 1        | T  | 1        | 1 | F        | 91       | $\top$      | $\top$       | T            | T        | T         | T        | Τ                  | 1        | Τ        |          | 1          |          | 14         | 1        |              | Π              |          |              | $\Box$                                 |  | $\Box$   |              | Ĺ        |
| $\vdash$ | 4        |            | +  | t        | ┪        | 十         | T                                      | T            | T        | T  | +        | 1 |          | 92       | 21          | T            | $\top$       | 1        | T         | 1        | Ī                  |          |          | Ī        | ]          |          | 14         |          |              |                |          |              |  | $\Box$   |          |              | Ĺ        |
| 卜        | 4        |            | T  | +        | $\top$   | $\top$    | T                                      | 1            | T        | 1  |          | 1 |          | 93       | 3           | Ι            | I            | Ι        |           | Γ        |                    |          |          |          | ]          |          | 14         | 3        |              | L              | L        |              | L                                      | L  | Ĺ        | Ļ            | L        |
|          | 4        | 4          | T  | T        | T        | 1         | T                                      | Τ            | T        |  |          | ] |          | 9        | 4           | I            | I            | oxdot    | L         |          |                    |          |          |          |            |          | 14         |          | Ĺ            | $\perp$        | L        | L            | _                                      | $\perp$  | 1        | 上            | L        |
|          | _        | 5          | I  |          | $\perp$  | l         | I                                      |              | I        | I  |          |   |          | 95       | _           | Ι            | L            | I        | $\Gamma$  | L        | $oxedsymbol{oxed}$ | L        | L        | L        | 4          | Ľ        | 14!        | _        | Ļ.           |                | 1        | $\downarrow$ | 1                                      | ↓_   | $\vdash$ | 1-           | $\perp$  |
|          |          | 6          | $oxed{T}$  | Ι        |          |           | I                                      | I            | L        | L  | I        | 1 | L        | 96       |             | _            | L            |          | Ļ         | L        | Ļ                  | $\perp$  | L        | 1        | 4          | L        | 140        |          | <u> </u>     | 1              | 1        | 1            | ₩                                      | ₩  | ₽        | ┼            | +        |
| L        | 4        |            | Ţ  | $\perp$  |          | $\perp$   | Ĺ                                      | 1            | ┸        | $\perp$                                      | L        | 4 | L        | 97       | _           | $\downarrow$ | $\perp$      | $\perp$  | -         | 1        | 1                  | $\vdash$ | 1        | 4        | _          | -        | 14         |          | ┡            | <del> </del> _ | $\vdash$ | $\perp$      | ـ                                      | +-   | ╄        | +            | ╀        |
| Ľ        |          | 8          | Ţ  | Ţ        | $\perp$  | 1         | $\perp$                                | L            | 1        | 4  | $\bot$   | 4 | L        | 98       |             | 1            | 1            | 4        | $\perp$   | +        | $\vdash$           | 1        | 1        | +-       | 4          | L        | 14         | -        | ╀            | $\vdash$       | ┼-       | +            | ┼-                                     | ╄  | $\vdash$ | ╀            | +        |
| Ŀ        |          | 9          | +  | +        | $\bot$   | 4         | +                                      | $\downarrow$ | +        | +  | $\perp$  | 4 | -        | 99       |             | +            | +            | +        | +         | +        | +                  | +-       | +        | +-       | 4          | $\vdash$ | 14         | 9        | 1            | ╀              | ╀        | +            | +-                                     | +  | ╀        | +            | t        |
| L        | 15       | 0          | 丄  | 1        |          |           | 丄                                      | ⊥.           | ┸        | 1  | Ц.,      | ┛ | L        | 1:0      | <u>q</u>    |              | 上            |          |           |          | 1                  | 1        | _        | ┸        | ╛          | L_       | 15         | ų        | <u>L</u> _   | 上              | 1_       | 1_           | ــــــــــــــــــــــــــــــــــــــ |  |          |              |          |

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